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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,222	04/23/2004	Richard A. Russell	017750-802	7748
	7590 10/30/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE BOX 1404			RAO, ANAND SHASHIKANT	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			2621	
			NOTIFICATION DATE	DELIVERY MODE
			10/30/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/830,222	RUSSELL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Andy S. Rao	2621			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 10 Au This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) 4,5,9-11,13,14,17,18 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3, 6-8, 12, 15-16, 19-26, and 44 is/a 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	and 27-43 is/are withdrawn from tre rejected.	consideration.			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original of the correction is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 0n 8/10/09 has been entered.
- 2. Applicant's arguments with respect to claims 1-3, 6-8, 12, 15-16, 19-26, 44 as filed on 8/10/09 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 6-8, 12, 15-16, 19-20, 23-26, 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lofgren et al, (hereinafter referred to as "Lofgren") in view of Rhoads.

Lofgren discloses a method for processing and outputting video frames (Lofgren: figures 5-6) comprising: receiving a stream of video frames from a first platform (Lofgren: column 3, lines 65-67); receiving geo-location data from a second platform

(Lofgren: column 4, lines 1-5; column 11, lines 60-65); inserting the geo-location data into a video frame to generate a modified video frame (Lofgren: column 4, lines 40-50); and outputting the modified video frame (Lofgren: column 10, lines 50-60), as in the claim 1. However, Lofgren fails to disclose the steps of "... superimposing the modified video frame onto a terrain map of a region of interest wherein objects within the modified video frame are portrayed on a corresponding geo-location in the terrain map..." as in the claim. Rhoads discloses a method of steganographically embedding geo-location data in media (Rhoads: column 4, lines 20-50) which discloses the steps of superimposing the modified video frame onto a terrain map of a region of interest wherein objects (Rhoads: column 3, lines 5-42) within the modified video frame are portrayed on a corresponding geo-location in the terrain map (Rhoads: column 2, lines 55-65; column 6, lines 15-53) in order to provide detailed indicia to users of the method in the fields of remote sensing and remote piloting applications (Rhoads: column 9, lines 19-22). Therefore, given Rhoads, it would have been obvious for one of ordinary skill in the art to incorporate the teaching the Rhoads superimposing step into the Lofgren method in order to provide detailed indicia to users of the image data when said image data is generated for remote sensing and remote piloting applications. The Lofgren method, now incorporating the Rhoads superimposing step, has all of the features of claim 1.

Regarding claim 2, the Lofgren method, now incorporating the Rhoads superimposing step, discloses wherein the geo-location data inserted into a particular video frame is based on the geo-location data of a scene in the particular video frame (Lofgren: column 3, lines 55-64; column 4, lines 10-15), as in the claim.

Regarding claim 3, Lofgren discloses wherein a time tag is also inserted into the video frame (Lofgren: column 4, lines 40-45: "file history"), as in the claim.

Regarding claim 6, the Lofgren method, now incorporating the Rhoads superimposing step, discloses storing the stream of video frames along with the associated geo-location data (Lofgren: column 4, lines 50-55), as in the claim.

Regarding claim 7, the Lofgren method, now incorporating the Rhoads superimposing step, discloses searching the stored geo-location data to identify geo-location data satisfying criteria specified in at least one search command (Lofgren: column 5, lines 5-15); and transmitting the identified geo-location data and video frames corresponding to the identified geo-location data (Lofgren: column 4, lines 1-6), as in the claim.

Regarding claim 8, the Lofgren method, now incorporating the Rhoads superimposing step, discloses wherein the time tags associated with the video frames are stored along with the geo-location data (Lofgren: column 4, lines 40-50), as in the claim.

Regarding claim 12, the Lofgren method, now incorporating the Rhoads superimposing step, discloses generating an index using the geo-location data and the time tags (Lofgren: column 4, lines 47-52); and searching the index based on the geo-location data or the time tags, wherein the outputted modified video frames are those video frames which are associated with the searched for geo-location data or the time tags (Lofgren: column 5, lines 25-40), as in the claim.

Regarding claim 15, the Lofgren method, now incorporating the Rhoads superimposing step, discloses wherein the geo-location data is inserted into a visible portion of the video frame (Lofgren: column 5, lines 5-15), as in the claim.

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Regarding claim 16, the Lofgren method, now incorporating the Rhoads superimposing step, discloses wherein the geo-location data is inserted into a non-visible portion of the video frame (Lofgren: column 7, lines 30-40), as in the claim.

Regarding claim 19, the Lofgren method, now incorporating the Rhoads superimposing step, discloses wherein the modified video frame is output onto a computer generated terrain map of a region of interest such that the modified video frame (Lofgren: column 3, lines 55-62), and any targets of interest are located within a proper geo-location within the displayed terrain map (Lofgren: column 1, lines 30-67; column 2, lines 1-53).

Lofgren discloses a system (Lofgren: figure 1) comprising: a receiver which receives from a first platform (Lofgren: column 3, lines 65-67) and receives geo-location data from a second platform (Lofgren: column 4, lines 1-4; column 11, lines 60-65); a stream of video frames (Lofgren: figure 1, element 11: antenna inherently a part of the 'aerial platform'); a processor which inserts the geo-location data into a video frame to generate a modified video frame (Lofgren: column 4, lines 40-50); and an output for outputting the modified video frame (Lofgren: column 10, lines 50-60), as in claim 20. However, Lofgren fails to disclose the steps of "a second processor for superimposing the modified video frame onto a terrain map of a region of interest wherein objects within the modified video frame are portrayed on a corresponding geo-location in the terrain map..." as in the claim. Rhoads discloses a system for steganographically embedding geo-location data in media (Rhoads: column 4, lines 20-50) which discloses the use of a second processor (Rhoads: column 3, lines 40-67) for superimposing the modified video frame onto a terrain map of a region of interest wherein objects (Rhoads: column 3, lines

5-42) within the modified video frame are portrayed on a corresponding geo-location in the terrain map (Rhoads: column 2, lines 55-65; column 6, lines 15-53) in order to provide detailed indicia to users of the method in the fields of remote sensing and remote piloting applications (Rhoads: column 9, lines 19-22). Therefore, given Rhoads, it would have been obvious for one of ordinary skill in the art to incorporate the teaching the Rhoads superimposing processor into the Lofgren system in order to provide detailed indicia to users of the image data when said image data is generated for remote sensing and remote piloting applications. The Lofgren system, now incorporating the Rhoads superimposing processor, has all of the features of claim 20.

Regarding claim 23, the Lofgren system, now incorporating the Rhoads superimposing processor, discloses a transmitter connected to the output for transmitting the modified video frame (Lofgren: column 4, lines 30-40), as in the claim.

Regarding claims 24-25, the Lofgren system, now incorporating the Rhoads superimposing processor, discloses a memory for storing the video frames along with associated geo-location data (Lofgren: column 4, lines 30-35), wherein the processor indexes the geo-location data, searches the geo-location data based on a search input, and the output modified video frame is a video frame corresponding to the search input (Lofgren: column 4, lines 30-50), as in the claim.

Regarding claim 26, the Lofgren system, now incorporating the Rhoads superimposing processor, discloses wherein the memory also stores time tags and sensor data associated with each of the video frames (Lofgren: column 4, lines 40-45: "file history"), and wherein the processor indexes the geo-location data, searches the geo-location data, the time tags and/or the sensor data based on a search input, and the output

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modified video frame is a video frame corresponding to the search input (Lofgren: column 5, lines 5-25), as in the claim.

Regarding claim 44, the Lofgren system, now incorporating the Rhoads superimposing processor, discloses determining the geo-location data using at least positioning information of the second platform and a distance between a scene in a particular video frame and the second platform (Lofgren: column 4, lines 40-50), as in the claim.

5. Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lofgren et al, (hereinafter referred to as "Lofgren") in view of Rhoads as applied to claim 20, and further in view of in view of Josypenko.

The Lofgren system, now incorporating the Rhoads superimposing processor, has a majority of the features as in claims 21-22, as has been discussed concerning preceding claim 20. However, the Lofgren-Rhoads combination fails to particularly disclose wherein the antenna is a linear taper antenna that is arranged to receive and transmit radar signals. Josypenko discloses a tapered direct fed quadrifilar helix antenna that incorporates the use of a linear taper (Josypenko: column 5, lines 45-55) and further discloses the use of the antenna for receiving and transmitting radar signals (Josypenko: column 5, lines 10-25) in order to have a compact antenna with good cardioid characteristics with circular polarization (Josypenko: column 3, lines 60-67) in communications between fixed ground stations and mobile stations (Josypenko: column 1, lines 25-37). Accordingly, given this teaching, it would have been obvious for one of ordinary skill in the art at the time of the invention to incorporate the Josypenko antenna linear taper antenna into the Lofgren-Rhoads system as its transmission/reception means

for its aerial platform in order to gain the benefits of having an antenna ith desired cardioid characteristics with circular polarization to allow for communications between the mobile station of the aerial platform and the ground stations of the Lofgren system. The Lofgren system, now incorporating the Rhoads superimposing processor and the Josypenko linear taper antenna, has all of the features of claims 21-22

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mason discloses a geolocation system enable speaker-microphone accessory for radio communication devices..
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

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800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao Primary Examiner Art Unit 2621

asr /Andy S. Rao/ Primary Examiner, Art Unit 2621 October 17, 2009